

Sanjiv V Moharil

List of Publications by Year in descending order

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101
papers

1,158
citations

471061

17
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525886

27
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103
all docs

103
docs citations

103
times ranked

1032
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescence properties of red emitting phosphor NaSrBO ₃ :Eu ³⁺ prepared with novel combustion synthesis method. Journal of Luminescence, 2013, 142, 180-183.	1.5	77
2	Two phosphor converted white LED with improved CRI. Journal of Luminescence, 2013, 136, 1-4.	1.5	63
3	UV luminescence of Ce ³⁺ and Eu ²⁺ ions in BaAl ₂ O ₄ , SrAl ₂ O ₄ and CaAl ₂ O ₄ phosphors. Journal of Advanced Ceramics, 2017, 6, 341-350.	8.9	50
4	Combustion synthesis of YAG:Ce and related phosphors. Applied Physics B: Lasers and Optics, 2011, 105, 479-484.	1.1	43
5	Optically stimulated luminescence from CaSO ₄ :Eu ²⁺ Preliminary results. Radiation Measurements, 2014, 71, 95-98.	0.7	33
6	Dielectric relaxation and electric modulus of polyvinyl alcohol/Zinc oxide composite films. Materials Research Express, 2017, 4, 055302.	0.8	32
7	Host sensitized NIR emission in rare-earth doped NaY(MoO ₄) ₂ phosphors. Journal of Alloys and Compounds, 2018, 732, 64-69.	2.8	27
8	Sensitization of Er ³⁺ /Ho ³⁺ visible and NIR emission in NaY(MoO ₄) ₂ phosphors. Optics and Laser Technology, 2019, 115, 215-221.	2.2	27
9	Highly sensitive Europium doped SrSO ₄ OSL nanophosphor for radiation dosimetry applications. Optical Materials, 2015, 48, 185-189.	1.7	26
10	Synthesis, characterization and optical properties of Y ₃ Al ₅ O ₁₂ :Ce phosphor by mixed fuel combustion synthesis. Journal of Alloys and Compounds, 2015, 650, 858-862.	2.8	26
11	Luminescence in LiCaPO ₄ . Physica B: Condensed Matter, 2011, 406, 1178-1181.	1.3	24
12	Sensitization of Yb ³⁺ emission in CaYAl ₃ O ₇ host. Optical Materials, 2017, 64, 217-223.	1.7	24
13	Synthesis and dosimetric characterization of LiCaPO ₄ :Eu phosphor. Radiation Measurements, 2011, 46, 196-198.	0.7	23
14	Sensitization of Nd ³⁺ by 4f-5d transition of Ce ³⁺ in Ba ₂ Y(BO ₃) ₂ Cl phosphor for the prospective NIR applications. Journal of Luminescence, 2018, 202, 1-6.	1.5	23
15	Sensitization of Nd ³⁺ near infrared emission in Ca ₂ PO ₄ Cl host. Journal of Luminescence, 2018, 197, 1-6.	1.5	22
16	Cr ³⁺ sensitized near infrared emission in Al ₂ O ₃ :Cr,Nd/Yb phosphors. Journal of Alloys and Compounds, 2019, 790, 1192-1200.	2.8	22
17	Near infrared emission and energy transfer in Eu ²⁺ - Nd ³⁺ co-doped Ca ₂ BO ₃ Cl. Optical Materials, 2016, 55, 44-48.	1.7	19
18	Na ₂ SiF ₆ :Cu,P: A new OSL phosphor for the radiation dosimetric applications. Radiation Protection Dosimetry, 2015, 163, 439-445.	0.4	18

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19	Nanostructured MIEC Ba _{0.5} Sr _{0.5} Co _{0.6} Fe _{0.4} O ₃ (BSCF5564) cathode for IT-SOFC by nitric acid aided EDTA-citric acid complexing process (NECC). International Journal of Hydrogen Energy, 2012, 37, 5208-5215.	3.8	17
20	Optically stimulated luminescence in Cu ⁺ doped lithium orthophosphate. Physica B: Condensed Matter, 2015, 458, 117-123.	1.3	17
21	NIR emission in Ba ₂ SiO ₄ :Eu ²⁺ , Nd ³⁺ phosphors with near UV/violet excitation. Journal of Alloys and Compounds, 2018, 743, 789-794.	2.8	17
22	Persistent luminescence in Ca ₈ Zn(SiO ₄) ₄ Cl ₂ :Eu ²⁺ . Journal of Luminescence, 2012, 132, 2799-2801.	1.5	16
23	Effect of co-doping on luminescence of LiCaAlF ₆ :Eu phosphor. Journal of Luminescence, 2015, 167, 80-84.	1.5	16
24	Discrimination of Aerosol Types and Validation of MODIS Aerosol and Water Vapour Products Using a Sun Photometer over Central India. Aerosol and Air Quality Research, 2015, 15, 682-693.	0.9	16
25	A comparative study of copper-cermet anode material synthesized by different technique. International Journal of Hydrogen Energy, 2012, 37, 6853-6861.	3.8	15
26	Optically stimulated luminescence and thermoluminescence in some Cu ⁺ doped alkali fluoro-silicates. Radiation Measurements, 2013, 59, 73-80.	0.7	14
27	NIR emitting phosphors based on sensitization by molybdate anion. Journal of Luminescence, 2018, 194, 656-660.	1.5	14
28	Luminescence of Yb ²⁺ in RbCaCl ₃ . Journal of Luminescence, 2013, 134, 456-458.	1.5	13
29	Blue-shifted photoluminescence of Alq ₃ dispersed in PMMA. Bulletin of Materials Science, 2011, 34, 1649-1651.	0.8	12
30	Synthesis and luminescence in some fluoro-silicates for the possible applications in OSL dosimetry. Physica B: Condensed Matter, 2012, 407, 629-634.	1.3	12
31	Synthesis and comparative study of Ce ³⁺ ion in calcium aluminates. Journal of Sol-Gel Science and Technology, 2017, 82, 344-351.	1.1	12
32	Wet chemical synthesis of Eu ²⁺ activated fluoro-elpasolite phosphors. Journal of Alloys and Compounds, 2014, 599, 49-52.	2.8	11
33	Development of Ag doped crystalline SiO ₂ for possible applications in real-time in-vivo OSL dosimetry. Radiation Measurements, 2014, 71, 208-211.	0.7	11
34	Blue emitting KSCN:xCe phosphor for solid state lighting. Journal of Luminescence, 2014, 145, 729-732.	1.5	11
35	NIR emission and Ce ³⁺ → Nd ³⁺ energy transfer in LaCaAl ₃ O ₇ phosphor prepared by combustion synthesis. Journal of Luminescence, 2016, 179, 350-354.	1.5	11
36	Luminescence in LiCaAlF ₆ :Eu,La phosphor. Journal of Luminescence, 2016, 178, 446-450.	1.5	11

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37	Wet chemical synthesis of KMgF ₃ phosphors. Journal of Alloys and Compounds, 2016, 657, 848-854.	2.8	11
38	NIR emitting phosphors based on PbMoO ₄ for modification of solar spectrum. Journal of Luminescence, 2018, 196, 259-263.	1.5	11
39	Synthesis and luminescence of La ₂ BaZnO ₅ phosphors. Journal of Luminescence, 2012, 132, 1112-1115.	1.5	10
40	Effect of Li ₄ P ₂ O ₇ and Li ₂ Cu ₂ P ₆ O ₁₈ minor phases on the luminescent properties of Cu ⁺ doped Li ₃ PO ₄ . Journal of Luminescence, 2014, 156, 25-29.	1.5	10
41	SrO:U ⁶⁺ green light emitting phosphor. Journal of Luminescence, 2014, 153, 304-306.	1.5	10
42	Rapid synthesis of garnet structured aluminosilicate phosphors. Journal of Luminescence, 2019, 214, 116537.	1.5	10
43	Broad Band excited NIR emission in Li ₂ CeO ₃ :Nd/Yb phosphor for modification of solar spectrum. Journal of Alloys and Compounds, 2019, 771, 534-540.	2.8	10
44	Enhancement of 1.54 μ m emission in Ce ³⁺ -Er ³⁺ codoped Ca ₄ Si ₂ O ₇ F ₂ phosphor. Journal of Alloys and Compounds, 2019, 775, 810-817.	2.8	10
45	NIR emitting Bi ₂ MoO ₆ :Nd ³⁺ /Yb ³⁺ phosphor as a spectral converter for solar cells. Journal of Luminescence, 2019, 206, 39-45.	1.5	10
46	Broadband excited Nd ³⁺ NIR emission in Sr ₅ (PO ₄) ₃ Cl:Eu ²⁺ , Nd ³⁺ phosphor for solar spectral modification. Journal of Luminescence, 2020, 222, 117118.	1.5	10
47	Photoluminescence study of rare earth doped Yttrium aluminum garnet (YAG:RE (RE: Eu ³⁺ , Pr ³⁺ and Tj ETQq1 1,0,784314 rgBT /Ove	1.4	9
48	Synthesis, crystal structure and luminescence in Ca ₃ Al ₂ O ₆ . Journal of Materials Science: Materials in Electronics, 2018, 29, 6260-6265.	1.1	9
49	KCl.SrCl ₂ :Eu ²⁺ ,Nd ³⁺ phosphor for possible application in solar photovoltaics. Journal of Luminescence, 2018, 199, 78-81.	1.5	9
50	Semiconductor host for designing phosphors for modification of solar spectrum. Optical Materials, 2020, 100, 109668.	1.7	9
51	Luminescence in Ca _{1-x} Y _x F _{2+x} . Physica B: Condensed Matter, 2011, 406, 1308-1311.	1.3	8
52	Luminescence of Ce ³⁺ in hydrated rare earth bromides. Journal of Luminescence, 2011, 131, 2499-2502.	1.5	8
53	Luminescence of some 3d activators in RbCaCl ₃ . Journal of Luminescence, 2013, 136, 365-368.	1.5	8
54	Ce ³⁺ and Eu ²⁺ luminescence in calcium and strontium aluminates. Journal of Materials Science: Materials in Electronics, 2018, 29, 4466-4477.	1.1	8

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55	Sensitization of NIR emission by tetravalent cerium in $K_2CeO_3:Nd,Yb$. Journal of Alloys and Compounds, 2018, 763, 159-163.	2.8	8
56	Preparation of CaF_2 based phosphors by solid state metathesis. Physica B: Condensed Matter, 2011, 406, 45-47.	1.3	7
57	Solid state metathesis of $CaSO_4:Eu^{2+}$ phosphor. Journal of Luminescence, 2012, 132, 342-344.	1.5	7
58	NIR emitting $K_2SrCl_4:Eu^{2+}, Nd^{3+}$ phosphor as a spectral converter for CIGS solar cell. Optical Materials, 2018, 79, 470-474.	1.7	7
59	NIR emission and energy transfer phenomena in $Bi_2(MoO_4)_3$ doped with Nd^{3+} and/or Yb^{3+} . AIP Advances, 2019, 9, .	0.6	7
60	A new precipitation based method for preparation of metasilicate phosphors. Journal of Alloys and Compounds, 2011, 509, 8742-8747.	2.8	6
61	Wet chemical synthesis of $LiBaF_3$ phosphor. Journal of Alloys and Compounds, 2013, 579, 165-168.	2.8	6
62	Wet chemical synthesis of Ce^{3+} activated fluoro-elpasolite and related fluoro-aluminate phosphors. Optical Materials, 2015, 50, 256-262.	1.7	6
63	Optically stimulated luminescence in doped $K_3Na(SO_4)_2$ phosphors. Radiation Measurements, 2016, 93, 20-27.	0.7	6
64	Optically stimulated luminescence study in rare earth doped $SrBPO_5$. Applied Radiation and Isotopes, 2017, 127, 209-213.	0.7	6
65	Cyan emitting $Ca_3Sc_2Si_{1.5}Ge_{1.5}O_{12}:Ce^{3+}$ phosphor with 10.4 ns lifetime. Journal of Luminescence, 2019, 216, 116744.	1.5	6
66	Eu^{2+} activated $RbCl:MgCl_2$ phosphors for solid state lighting. Optical Materials, 2013, 35, 1243-1246.	1.7	5
67	Phase dependent TL/OSL studies in various phases of chemically synthesized Cu doped crystalline SiO_2 . Journal of Luminescence, 2016, 171, 72-78.	1.5	5
68	Optically stimulated luminescence in doped NaF. Applied Radiation and Isotopes, 2016, 111, 75-79.	0.7	5
69	A new highly sensitive low-Z LiF-based OSL phosphor for radiation dosimetry. Radiation Protection Dosimetry, 2016, 168, 465-470.	0.4	5
70	Luminescence in $Ca_{10}(PO_4)_6O:Eu^{2+}, Nd^{3+}$. Optical Materials, 2018, 84, 324-329.	1.7	5
71	Improved White Light Emitting Diode Characteristics by Coating $GdAG:Ce$ Phosphor. Transactions on Electrical and Electronic Materials, 2014, 15, 69-72.	1.0	5
72	Synthesis and TL/OSL studies in Cu activated lithium silicate. Radiation Measurements, 2015, 77, 18-25.	0.7	4

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73	Metal Quinolates as Phosphors for PC-LED Applications. Journal of Fluorescence, 2017, 27, 967-972.	1.3	4
74	DEVELOPMENT OF NaCl-BASED OPTICALLY STIMULATED LUMINESCENT PHOSPHORS FOR THE POSSIBLE APPLICATIONS IN DOSIMETRY. Radiation Protection Dosimetry, 2020, 192, 27-35.	0.4	4
75	Spectral converters for CdS-CdTe solar cell. Journal of Alloys and Compounds, 2020, 825, 154007.	2.8	4
76	Colour tuning of garnet phosphor through codoping. Journal of Luminescence, 2021, 235, 118017.	1.5	4
77	Luminescence in the system Al ₂ O ₃ -B ₂ O ₃ . Journal of Alloys and Compounds, 2021, 883, 160846.	2.8	4
78	Effect of Chip Wavelength and Particle Size on the Performance of Two Phosphor Coated W-LEDs. Transactions on Electrical and Electronic Materials, 2014, 15, 66-68.	1.0	4
79	Synthesis, characterization, and luminescence studies of rare-earth-activated NaMgF ₃ . Luminescence, 2022, 37, 89-96.	1.5	4
80	Optically stimulated luminescence studies in combustion synthesized Al ₂ O ₃ :C,Cu,P. Applied Radiation and Isotopes, 2015, 104, 212-216.	0.7	3
81	NIR Emission and Eu ²⁺ Nd ³⁺ Energy Transfer in K ₂ SrCl ₃ :Eu ²⁺ , Nd ³⁺ phosphor. Materials Today: Proceedings, 2017, 4, 12582-12585.	0.9	3
82	Structural and Optical Behavior of nanoCe ₂ (SO ₄) ₄ ·3H ₂ O, CeF ₃ and CePO ₄ :Tb ³⁺ ; Composites Embedded in PVOH Matrix. Advanced Materials Research, 0, 748, 117-122.	0.3	2
83	Thermoluminescence and optically stimulated luminescence in various phases of doped Na ₂ SO ₄ . Phase Transitions, 2016, 89, 202-210.	0.6	2
84	Luminescence of Ce ³⁺ in some compounds in the system CaO-SiO ₂ -CaCl ₂ . Journal of Luminescence, 2017, 188, 168-171.	1.5	2
85	Effect of Si codoping on thermoluminescence properties of undoped and RE (RE:Ce/Tb/Pr/Eu/Yb/Nd) doped YAG phosphor under UV, and ¹³⁷ I-ray irradiation. Optical Materials, 2017, 73, 799-804.	1.7	2
86	Energy transfer studies in Ca ₁₀ Li(PO ₄) ₇ :Ce ³⁺ , Nd ³⁺ . Optik, 2018, 168, 92-100.	1.4	2
87	Synthesis and characterization of KCe(PO ₃) ₄ doped with some lanthanide activators. Luminescence, 2018, 33, 356-363.	1.5	2
88	Luminescence in Eu ²⁺ Activated (Ca _{5-x} Sr _x)(PO ₄) ₃ Cl (x = 0.1, 2.4) Phosphors. Materials Today: Proceedings, 2019, 15, 555-559.	0.9	2
89	Activation of bismuth aluminate for obtaining near infrared emission. Optical Materials, 2021, 122, 111773.	1.7	2
90	Effect of Al ³⁺ co-doping on the luminescence properties of Cu doped Na ₂ SiF ₆ . Applied Radiation and Isotopes, 2016, 116, 57-62.	0.7	1

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91	PHASE DEPENDENT OPTICALLY STIMULATED LUMINESCENCE IN CU-DOPED Sr ₄ Si ₃ O ₈ Cl ₄ . Radiation Protection Dosimetry, 2018, 181, 135-141.	0.4	1
92	PHOTOLUMINESCENCE, THERMOLUMINESCENCE AND OPTICALLY STIMULATED LUMINESCENCE STUDIES IN ZINC-BASED FLUOROPERVOSKITES. Radiation Protection Dosimetry, 2018, 179, 37-42.	0.4	1
93	Preliminary results on the photoluminescence and optically stimulated luminescence in Cu doped and Ag doped ZnB ₂ X ₄ (B=Al, Na, K; X=Cl, Br) compounds. Luminescence, 2018, 33, 97-103.	1.5	1
94	One step synthesis and X-ray induced luminescence in RGB PDP phosphors. Advanced Materials Letters, 2011, 2, 331-335.	0.3	1
95	Combustion Synthesis of Some Cr ³⁺ -Activated Aluminate Phosphors. Physics of the Solid State, 2021, 63, 1104-1112.	0.2	1
96	Synthesis of KZnF ₃ Phosphors by Co-Precipitation Method. , 2022, 9, 75-83.		1
97	Wet-chemical synthesis and luminescence of KCeF ₄ . Materials Today: Proceedings, 2020, 26, 1046-1048.	0.9	0
98	An attempt to synthesize and study luminescence in CaSiF ₆ . Materials Today: Proceedings, 2020, 28, 112-114.	0.9	0
99	Synthesis and study of luminescence in Na ₂ SiF ₆ . Materials Today: Proceedings, 2020, 28, 37-39.	0.9	0
100	Wet Chemical Synthesis and Study of Luminescence in Some Eu ²⁺ Activated AEMgF ₄ Hosts. Physics of the Solid State, 2020, 62, 2318-2324.	0.2	0
101	Photoluminescence Properties of (Mg ²⁺) Divalent and (Al ³⁺) Trivalent Metal Coumarinates Doped with Quinoline for PCLED Application. , 2022, 9, 67-74.		0